

DERWENT-ACC-NO: 1988-179392

DERWENT-WEEK: 198826

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TITLE: Segment type ceramic grindstone - comprises metal disc
and circular ceramic grindstone layer formed by arranging
fan-shaped moulded grindstone segments

PATENT-ASSIGNEE: MASUDA T[MASUI]

PRIORITY-DATA: 1986JP-0262307 (November 4, 1986)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|--------------|----------|-------|----------|
| JP 63116747 A | May 21, 1988 | N/A | 004 | N/A |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-DATE |
|--------------|-----------------|----------------|------------------|
| JP 63116747A | N/A | 1986JP-0262307 | November 4, 1986 |

INT-CL (IPC): B02C007/12, B24D007/06

ABSTRACTED-PUB-NO: JP 63116747A

BASIC-ABSTRACT:

Rotating grindstone and fixed grindstone placed opposite each other, which are incorporated in high speed grinding machine, comprises metal disk and circular ceramic grindstone layer formed on the disk, which is formed by arranged fan-shaped moulded grindstone segments.

Preferred ceramic materials used are zirconia ceramics and ceramics comprising silicon nitride, aluminium nitride, titanium nitride, boron nitride, silicon carbide, titanium carbide or tungsten carbide etc. Ceramic segments, e.g. zirconia ceramic segments, are obtained by mixing yttrium oxide and ZrO₂, moulding in the form of fan and firing at 1800-2000 deg C. ADVANTAGE - Ceramic grindstone with large radius is produced at relatively low cost. Break of grindstone caused by shrink of ceramics on firing is prevented. Damaged ceramic parts are easily replaced. Previously ground glass particles with size of several μm are ground and particles with desired particle distribution and with purity of 99.9999% are obtained.

CHOSEN-DRAWING: Dwg. 0/4

TITLE-TERMS: SEGMENT TYPE CERAMIC GRINDSTONE COMPRISE METAL DISC CIRCULAR
CERAMIC GRINDSTONE LAYER FORMING ARRANGE FAN SHAPE MOULD GRINDSTONE
SEGMENT

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DERWENT-CLASS: L02 P41 P61

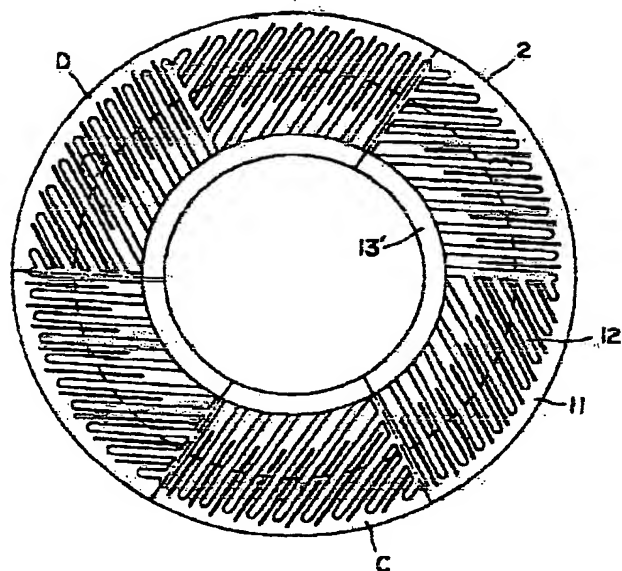
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SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1988-080090

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